Write your name here

Surname	Other names

Pearson Edexcel GCE

Centre Number | | | | | |

Candidate Number | | | | |

Music Technology

Advanced Subsidiary
Unit 2: Listening and Analysing

Wednesday 21 May 2014 – Morning
Time: 1 hour 45 minutes

Paper Reference
6MT02/01

You must have:
Individual CD player, headphones and audio CD of recorded extracts.

Total Marks

Instructions
- Use **black** ink or ball-point pen.
- **Fill in the boxes** at the top of this page with your name, centre number and candidate number.
- Answer **all** questions.
- Answer the questions in the spaces provided
  – *there may be more space than you need.*
- If you are using a computer to play the CD, access to sequencing software is NOT permitted.
- You must ensure that the left and right earpieces of your headphones are worn correctly.

Information
- The total mark for this paper is 80.
- The marks for **each** question are shown in brackets
  – *use this as a guide as to how much time to spend on each question.*
- Questions labelled with an **asterisk** (*) are ones where the quality of your written communication will be assessed
  – *you should take particular care with your spelling, punctuation, grammar and clarity of expression on these questions.*
- Each question number refers to the relevant track number on the audio CD, eg Question 1 refers to Track 1, Question 2 to Track 2 etc.
- You may listen to each track as many times as you wish within the overall time limit of the paper.
- The use of the words 'instrument' or 'sounds' refers to vocals, acoustic instruments, electric/electronic instruments and electronically-generated sounds unless otherwise stated.

Advice
- Read each question carefully before you start to answer it.
- Try to answer every question.
- Check your answers if you have time at the end.

Turn over ▶

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SECTION A

Answer ALL questions

Some questions must be answered with a cross in a box ☒. If you change your mind about an answer, put a line through the box ☒ and then mark your new answer with a cross ☒.

1 The Cure: *The Lovecats*

Track 1: music begins at 0'37"

(a) Identify **three** features of swing music that have been borrowed for this arrangement.

(3)

1 .....

2 .....

3 .....

(b) Other than the piano, name the tuned percussion instrument heard from 2'17".

(1)

.....

(c) Describe how you would close mic a grand piano in stereo.
Refer to your choice of microphones and mic placement in your answer.

Choice of mic

(1)

.....

Mic placement

(3)

.....

.....

.....

(d) The brass sounds heard from 2'37" are not created by actual brass instruments.
How might they have been created when this was recorded in 1983?

(2)

.....

.....

(Total for Question 1 = 10 marks)

2 En Vogue: *Hold On*

Track 2: music begins at 0'05"

(a) Identify the tonality of the opening of the song.

Put a cross ☒ in the correct box.

(1)

- ☒ **A** Atonal
- ☒ **B** Major
- ☒ **C** Minor
- ☒ **D** Modal

(b) What is the term for unaccompanied vocals such as those between 0'05" and 1'11"?

(1)

(c) Complete the table below to describe the placement in the stereo field of the selected tracks.

Track	Place in stereo field
Brass stabs from 1'21"	**(1)**
Main vocals from 1'31"	**(1)**
Backing vocals from 1'41"	**(1)**

(d) Which of the following best describes the harmony of the accompaniment from 1'11"?

Put a cross ☒ in the correct box.

(1)

- ☒ **A** Only chords IV and V are used
- ☒ **B** The chords are all major
- ☒ **C** The chords follow the vocals
- ☒ **D** The harmony is static

(e) There is a distinctive reverb on the snare drum between 4'00" and 4'19".

(i) How might this have been achieved in 1992 using digital technology?

(2)

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.....

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.....

(ii) How might this have been achieved in 1972?

(2)

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.....

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.....

(Total for Question 2 = 10 marks)

3 The Penguins: *Earth Angel*

Track 3: music begins at 0'06"

(a) In which decade was this track recorded?

(1)

.....

(b) (i) What term is used to describe this style of music?

Put a cross ☒ in the correct box.

(1)

- ☒ **A** Big Band
- ☒ **B** Blues
- ☒ **C** Doo-wop
- ☒ **D** Swing

(ii) Identify **one** feature of the style heard in this recording.

(1)

.....

(c) Which of the following best describes the vocal ensemble in this recording?

Put a cross ☒ in the correct box.

(1)

- ☒ **A** Falsetto, Alto, Tenor, Bass
- ☒ **B** Soprano, Alto, Tenor, Bass
- ☒ **C** Tenor, Tenor, Baritone, Bass
- ☒ **D** Treble, Alto, Tenor, Bass

(d) What is the approximate tempo of this song in beats per minute?

(1)

.....

(e) Due to the limitations of the technology, this recording has some problems. Two are given below. Say how they might have been caused and how they could be avoided using modern equipment.

Problem with recording	How might it be caused?	How could it be avoided?
Piano sounds muddy under the vocals	**(1)**	**(1)**
Vocals are not well balanced	**(1)**	**(1)**

(f) What is the time signature of this song?

(1)

.....

(Total for Question 3 = 10 marks)

4 Kate Rusby: *Underneath the Stars*

Track 4: music begins at 0'06"

(a) Identify the root notes of the repeating chord sequence played by the guitar in the introduction.

Complete the boxes below.

(2)

C	**F**		

(b) Which of these words best describes the guitar part from 0'06" to 0'29"?

(1)

- ☒ **A** Counterpoint
- ☒ **B** Leitmotif
- ☒ **C** Ostinato
- ☒ **D** Scalic

(c) What type of ensemble accompanies the guitar and vocal in this recording from 1'33"?

(1)

(d) A performance very close to a cardioid microphone may result in a boost of the lower frequencies. What is the name of this effect?

(1)

.....

(e) Using close-mic techniques to capture an intimate vocal performance can lead to problems. Complete the table to describe how these problems could be avoided.

(3)

Plosives	
Unwanted room reverb	
Sibilance	

(f) If this were a live studio recording, suggest **two** measures that you would take to reduce spill when capturing the vocal.

(2)

1 .....

2 .....

(Total for Question 4 = 10 marks)

(TOTAL FOR SECTION A = 40 MARKS)

SECTION B

5 Special Focus Style – Heavy Rock

Black Sabbath: *Iron Man*

Track 5: music begins at 0'06"

(a) Describe the use of panning in the introduction (0'06" – 0'34").

(3)

.....

.....

.....

(b) (i) Name two performance techniques being used by the lead guitarist between 3'17" and 3'51".

(2)

.....

(ii) Suggest two ways the distortion on the lead guitar could have been achieved at the time.

(2)

1 .....

.....

2 .....

.....

(c) Complete the table below, suggesting two technical challenges to be considered when recording a drum track for a hard rock band and giving two possible solutions.

Challenge	Solution
(1)	(1)
(1)	(1)

(d) Fill in the **four** missing pitches from the lead guitar line between 2'09" and 2'12".

(4)

(e) Suggest **one** way in which a 'robot-voice' effect could be created at 0'16".

(1)

.....

(f) Describe the contribution made to Heavy Rock by one of the following, supporting your answer with reference to relevant albums and/or tracks.

Put a cross ☒ in **one** of the boxes below to indicate your choice.

☒ Led Zeppelin

☒ Deep Purple

(4)

(Total for Question 5 = 20 marks)

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6 Special Focus Style – Reggae

Damian Marley: *Welcome to Jamrock*

Track 6: music begins at 0'06"

(a) What degree of the minor scale is used for much of the melody line?

(1)

.....

(b) Which of the following best describes the range of the bass part?

(1)

- ☒ **A** Perfect 4th
- ☒ **B** Perfect 5th
- ☒ **C** Major 6th
- ☒ **D** Octave

(c) Listen to the phrase "Welcome to Jamrock" between 1'15" and 1'23". How has the 'telephone effect' been achieved?

(1)

.....

.....

(d) What is the name for the accented off-beat rhythmic chords that are typically found in Reggae music?

(1)

.....

(e) Describe the EQ on the bass line.

(1)

.....

(f) Describe the delay on the guitar between 0'08" and 0'27".

(3)

.....

.....

.....

(g) Describe the use of lo-fi sounds between 3'08" and the end.

(2)

.....

.....

(h) Select two of the reggae artists below and describe their contribution to reggae music. Support your answer with reference to relevant albums and/or tracks.

Put a cross ☒ in **two** of the boxes below to indicate your choices.

- ☒ Bob Marley
- ☒ Lee 'Scratch' Perry
- ☒ King Tubby

Artist 1 .....

(5)

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Artist 2 .....

(5)

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(Total for Question 6 = 20 marks)

(TOTAL FOR SECTION B = 40 MARKS)
(TOTAL FOR PAPER = 80 MARKS)

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